

DCR 2021

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PHILIPS

Foreword

Dear Customer,

Thank you for choosing the DCR 2020 digital receiver. With your new DCR 2020 digital receiver, the whole world of television is open to you for top-quality viewing!

This User Manual will help you get the best out of the extensive and fascinating functions of your new digital receiver.

As a latest generation digital receiver, the DCR 2020 is also designed to receive and use Premiere services. With a subscription to Premiere, a whole new dimension in digital television is opened up to you:

- PREMIERE FILM offers great entertainment to suit all tastes with a selection of 100 films a day with no commercial interruption. DISNEY CHANNEL provides great family entertainment.
- PREMIERE SPORT & PREMIERE FUSSBALL LIVE offer the best in sports - and you can enjoy your game in unique broadcast quality.
- PREMIERE THEMA includes a wide variety of theme channels for all your moods and interests with documentaries, interactive advice programmes, children's programmes, music channels and adult channels, as well as the best programmes for fans of sci-fi, thrillers, action and classic movies.
- On PREMIERE DIREKT, you can easily book, by telephone, SMS or via the Internet, the best current films, exclusive sports events, special events and adult television for whatever time you want and enjoy them at home.

Subscribe to the best in television and experience more exclusiveness, more variety and more comfort - with Premiere.

When installing Premiere, please observe the installation instructions that come with the Premiere smartcard. If you haven't got a Premiere smartcard yet, you can find further information on current Premiere offers on:

0180/551 00 00* - www.premiere.de
for Germany

01 / 49166 200 - www.premiere.at
for Austria

or at specific dealers.

We wish you great viewing with your Philips DCR 2020!

Your Philips Team

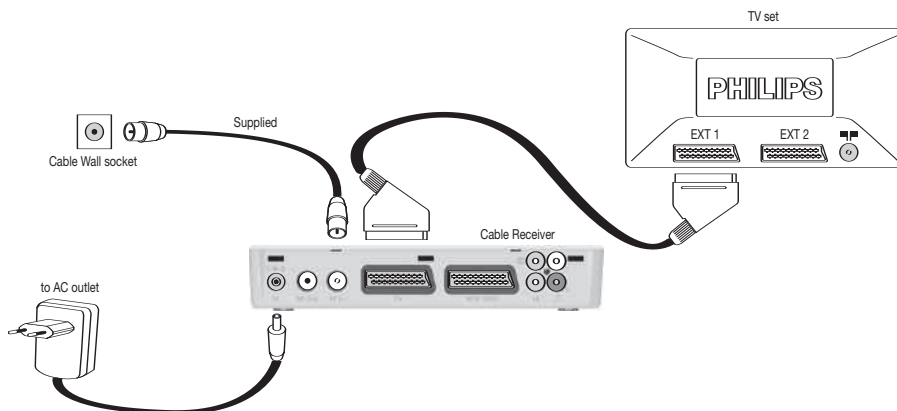
*0.12 euros/min on the Deutsche Telekom Ltd. fixed network

Quick installation



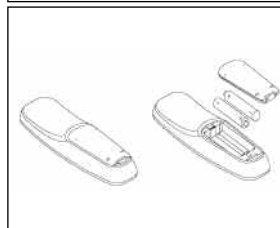
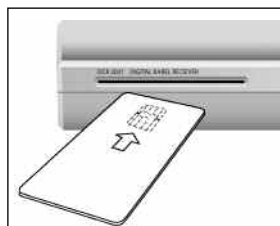
Please read the safety section before connecting your receiver.

- 1 Disconnect your TV set and recorder from the mains.
- 2 Integrate your receiver in your existing installation as shown on the diagram.



- 3 Insert your smart card in your receiver with the golden contacts facing up.
- 4 Insert the two batteries supplied in your remote control.

Batteries are removable from the remote using common household tools (like a screwdriver...). The batteries supplied do not contain hazardous substances such as Mercury, Cadmium, or Lead. However, they must not be disposed of with your household waste but to a local separate collection system.



- 5 Reconnect your TV set and recorder to the mains. Do not connect your receiver to the mains yet!
- 6 Switch on your TV set and select a channel.
- 7 Plug the receiver's power supply cord into the mains. The welcome screen appears, then the First Installation screen.
- 8 Set your favourite Language setting.
- 9 Set your TV display format.



10 Press **OK** to start scanning for channels.

When scanning has been successfully completed, a completion message is displayed.

11 Press **OK**; a new screen appears, indicating that a search for new software is in progress.

12 Press **EXIT** to stop searching and tune the receiver to the first channel in the main TV list.

13 Alternatively, wait for software detection, and then proceed as described in paragraph 10.5.5.2

For detailed information on first installation, see chapter 5.

EN

Meaning of symbols

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	Important information: Must be read and understood.
	Your product has been designed and manufactured with high quality materials and components, which can be recycled and reused. When this crossed-out wheeled bin symbol is attached to a product or his packaging, it means the product is covered by European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electronic products. Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.
	The “Material recyclability symbol” affixed on package cardboard and user manual means these parts are recyclable. So do not dispose of them with your normal household waste.
	The “Material recyclability symbol” affixed on plastic packaging parts means these parts are recyclable. So do not dispose of them with your normal household waste.
	The “Green Dot” affixed on cardboard means PHILIPS pays a financial duty to the “Avoidance and Recovery of Packaging Waste” organization.

Safety instructions

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Your receiver is powered using an AC adaptor. This equipment has been manufactured to meet the appropriate safety standards, but the instructions below must be followed to operate it safely. These instructions must be kept for future reference.

- Before connecting the AC adaptor to the mains, check that the mains supply voltage corresponds to the voltage printed on it. If the mains voltage is different, consult your dealer.
- The AC adaptor has been designed for indoor use only.
- The receiver and AC adaptor do not contain any user-serviceable parts. Do not attempt to open them. All maintenance work must be carried out by qualified personnel.
- Periodically inspect the AC adaptor for damage. Do not use if damage is found. Refer to qualified personnel.
- Unplug the AC adaptor from the mains during lightning storms.
- To prevent fire or shock hazard, do not expose this equipment to rain or moisture.
- The receiver should be placed on a firm surface, and the ventilation openings must not be covered with items, such as newspapers, table clothes, curtains, etc.
- Do not install this equipment near any heat sources such as radiators, stoves or other apparatus that produce heat. Protect it from direct sunlight.
- When installing the receiver, ensure there is a gap of approximately 2 cm around it to enable air to circulate freely and prevent overheating.
- Leave access to the AC adaptor in case emergency shutdown is required.
- Do not place any combustible objects on the receiver (candles, etc.).
- No objects filled with liquids, such as vases, shall be placed on the receiver. It shall not be exposed to dripping or splashing. Should this happen, disconnect the AC adaptor from the mains and consult qualified personnel.
- Make sure that children do not place any foreign objects in any of the openings.
- For cleaning, use a soft, damp (not wet) cloth. Never use any abrasive cloth and aerosol cleaners.



Your receiver, as any electronic equipment, consumes power. In order to reduce power consumption, please switch your receiver to standby or "Low Power" whenever you are not using it. For maximum energy saving we recommend you switch off the receiver by unplugging it from the mains if you are not using it for a long time.

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I Product description

I.1 Front panel

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- 1 Smart Card slot: see chapter Inserting your Smartcard
- 2 ▼ channel -
- 3 ▲ channel +
- 4 remote control receiver window
- 5 ⏻ ON/ Low Power/Reset (5 second key press)

The front panel ⏻ button includes a colour LED indicating the receiver status. The LED blinks at remote control command reception.

STATUS INDICATOR TABLE

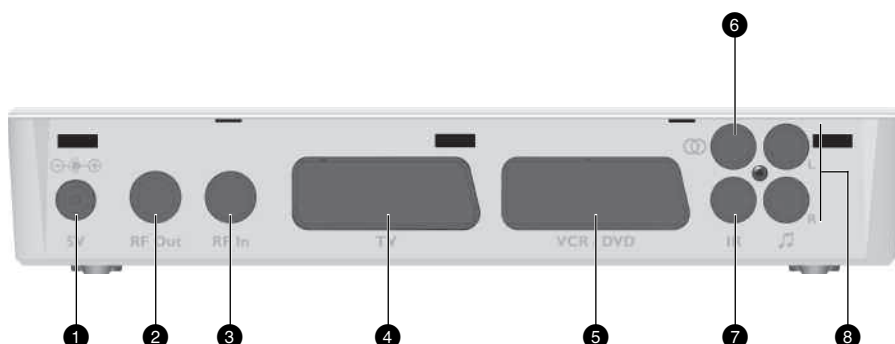
Mode	Indicator	LED
Low power		red
Standby		orange
TV/Radio mode		green
Timer active in running mode		Dimmed green
Timer active in standby		Dimmed orange
Download in progress		Blinking red

If you have put your receiver in “standby” and the LED is blinking red, it indicates that an upgrade of your receiver is taking place. Do not interrupt this operation. Wait for the LED to blink green, indicating successful download. You can then continue as normal.



When your receiver is in low power mode, software functions are no longer supported. Therefore EPG data may not be up-to-date when waking-up from low power (see paragraph 6.8).

1.2 Rear panel



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- 1 5V (*): Socket used to connect the power cord.
- 2 RF Out (*): RF output used to connect your receiver to a VCR/TV set to watch analogue channels only, or to connect another receiver.
- 3 RF In (*): RF input used to connect the antenna cord from the wall socket. Refer to chapter Connecting your Digital-Receiver.
- 4 TV (*): SCART⁽¹⁾ socket used to connect your TV set.
- 5 VCR/DVD (*): SCART⁽¹⁾ socket used to connect your video recorder or DVD player/recorder.
- 6  (*): Digital audio cinch output used to connect your HiFi/audio receiver system.
- 7 IR Not active on this receiver version.
- 8 L/R  (*): Left/Right analogue audio cinch outputs used to connect your HiFi/audio receiver system.

The label showing the type and serial number is underneath the receiver.

⁽¹⁾ SCART is also called Euroconnector or Peritel.

* *Safety Extra Low Voltage*

Note: if you consider using a video projector, refer to its user manual for the best video format to feed it. If necessary, refer to paragraph System Settings to properly set the TV/VCR SCART output.

2 Inserting your Smart Card



To de-scramble digital encrypted channels, you need a smartcard from your cable TV supplier, which you will be delivered when taking up a subscription.

Insert the smartcard with the golden chip facing up.

Push the smartcard into the slot as far as it will go. Approximately 1 cm of the card will be visible outside the slot.

New and updated information may be downloaded onto the smartcard from time to time.

The smartcard status can be checked from the Smartcard item of the Premiere menu.

3 Remote control

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MUTE

Mute/Dimute the sound on your TV or receiver

RED, GREEN, YELLOW, BLUE

Contextual keys
OPT (yellow)
 Open option menu for selection in multifeed or NVOD application

List

- Open current channel list.
- Then switch between channel lists

SUBTITLE

Subtitle selection

I-II

Soundtrack selection

MENU

Open/Close menu

CURSOR keys

▲/▼
 Move up/down within menus and lists.

◀/▶
 Set a setting

OK

- Call up current channel list while watching digital TV or listening to the radio
- Confirm selection

VOLUME **+/-**
 Turn the volume up/down.

TV/STB

Toggle between digital TV/radio and analogue TV

Standby

Switch receiver to standby

▲ (blue) resp. ▼ (white)

Scroll one page up or one page down in EPG or channel lists.

EPG

Open/close EPG

INFO

- Open info banner
- Then show extended programme information
- Then close banner

TIMER

- Set a recording timer when watching digital TV or from the EPG

*Note: press **TIMER** then 0 to delete the active timer.*

EXIT

- Recall last channel while watching digital TV or listening to the radio
- Or go back one step in the menu.

P+ / P-

- Select next/previous channel
- Wake up the receiver from standby

TV/RADIO

- Toggle between digital TV and digital Radio
- Wake up the receiver from standby

0-9

- Select a channel while watching digital TV or listening to the radio
- Directly select a menu item
- Wake up the receiver from standby

4 Connecting your Digital-receiver

There are several ways you can connect and integrate your Digital-Receiver into your existing audio/video equipment setup.

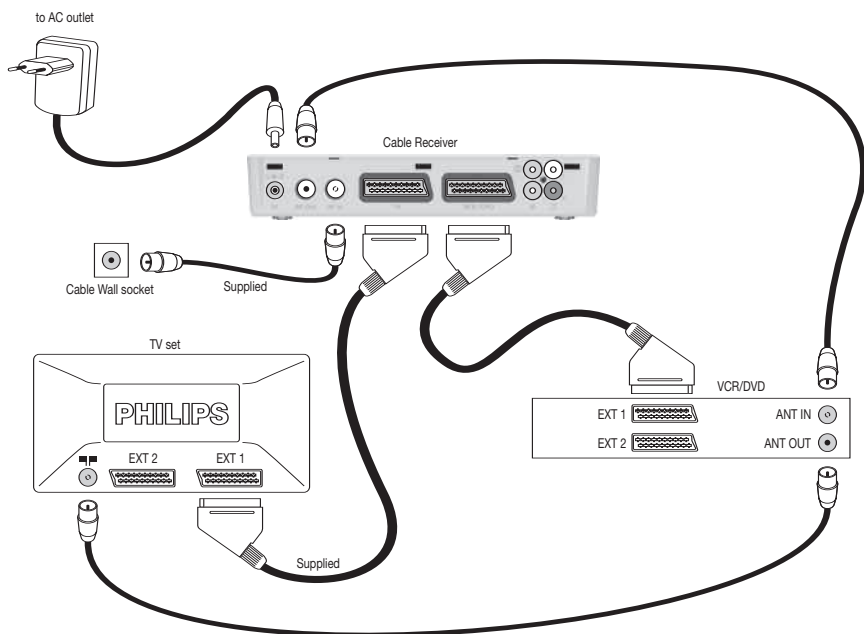
Warning!

Before starting:

- 1 Unplug all equipment (TV set as well as VCR and/or DVD) from the mains. Do not connect your Digital-Receiver to the mains supply now.
- 2 Check your current wiring because you might keep existing connections of your current Audio/Video setup.
- 3 Choose the relevant connection method for incorporating your Digital-Receiver into your existing audio/video setup

4.1 Connecting to a TV and VCR both fitted with SCART sockets

Incorporate your receiver in your existing installation as described below.



- Connect the “RF In” socket of your Digital-Receiver to the cable wall socket using the RF coaxial cable supplied.
- Connect the “TV” SCART socket of your Digital-Receiver to the RGB capable SCART socket of your TV using the SCART lead supplied with your Digital-Receiver.

This connection also applies if your VCR has two SCART sockets.

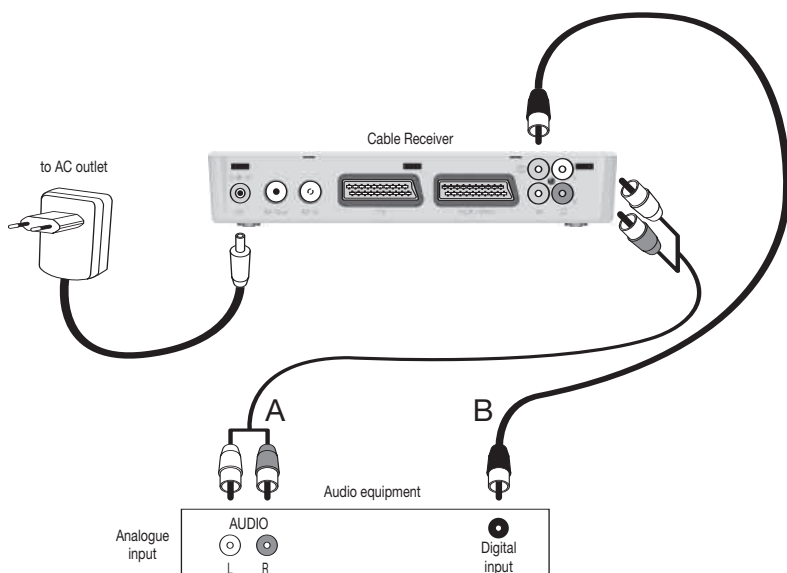
With this connection set up, you can:

- Watch digital TV while you record analogue TV.
- Record the digital TV channel you are watching.
- Watch play-back from your VCR.

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4.2 Connecting to your audio equipment (analogue or digital)

Depending on your audio equipment, you might have several options to connect your Digital-Receiver.



ANALOGUE CONNECTION (A)

Connect the L/R audio output sockets to the relevant L/R audio input sockets of your audio equipment using a double CINCH cable (not supplied). Consult the user manual of your audio equipment to locate the proper analogue audio inputs.

With this connection set up you can control the volume (up/down and mute) using either your Digital-Receiver or audio equipment remote control.

DIGITAL CONNECTION (B)

Connect the  audio output socket to the relevant digital audio input socket of your audio equipment using a single CINCH cable (not supplied). Consult the user manual of your audio equipment to locate the proper digital audio input.

With this connection set up you can only control the volume (up/down and mute) using your audio equipment remote control; refer to the user manual of your audio equipment.

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4.3 Connecting of a video projector to watch digital TV

Connect the “TV” SCART socket of your Digital-Receiver to your video projector. Video projectors are often fed with S-Video format video signals. If this is the case with your projector, follow the instructions below for connection and installation:

- 1 Connect a SCART/S-Video adapter to the “TV” SCART of your receiver (not supplied), and connect the adapter to the S-Video input of your video projector by means of a S-Video cable.
- 2 Installation: refer to chapter 10.5.2 to change the “TV/VCR SCART output” setting of your Digital-Receiver to S-VIDEO/PAL-CVBS.

5 First installation



Your receiver is connected to the cable wall socket, TV set and other equipment according to the diagrams in chapter Quick installation.

- 1 Switch on your TV set and select a channel.
- 2 Plug your receiver into the mains. Wait for approximately 20 seconds for the welcome screen to appear.
- 3 Wait for a few seconds for the First installation screen to appear.

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5.1 First installation settings

- 4 Set your favourite **Language setting**.
- 5 Set your **TV display format**.
- 6 Press **OK** to start scanning for channels.



5.2 Channel scan

During the scanning process, the following information is reported on screen:

- number of TV and radio channels detected
- scanning progress, indicated as a percentage
- strength of the signal and the quality of reception.

Channel scan may take up to twenty minutes. If you press **EXIT** during the scanning process, you interrupt the scanning. In this case, none of the channels found are stored.

When scanning has been successfully completed, a completion message is displayed.

- 7 Press **OK**; a new screen appears indicating that a search for new software is in progress.
- 8 Press **EXIT** to stop searching and tune the receiver to the first channel in the main TV list.

Alternatively, wait for software detection, and then proceed as described in paragraph 10.5.5.2.

5.3 Search failure

In case of channel search failure a failure message is displayed.

Before starting a new scan

The following checks are recommended:

- antenna cable,
- antenna connection to your receiver (see chapter 4.1),
- number of channels available from your cable TV supplier.

- 1 Press **EXIT** to return to the First installation screen.
- 2 Press **OK** to launch a new scan.

If the same failure message appears after a while, refer to chapter Troubleshooting. Contact your cable TV supplier if the problem remains.

6 Day-to-day operation

6.1 Using Low Power mode

6.1.1 Your cable receiver is on.

- The front panel LED indicator is lit in green.
- To put your receiver in Low Power mode, press the front panel  button: the LED indicator turns red and power consumption drops to 2 W.
- To wake up your receiver from Low Power, press the front panel  button: the LED indicator turns green to indicate that the receiver is on.

6.1.2 Your cable receiver is in standby mode.

- The front panel LED indicator is lit in orange.
- To put your receiver in Low power mode, press the front panel  button: the LED indicator remains orange and power consumption drop to 2 W.

At this stage, if you press the P+ or P- key of the remote control to wake up your receiver, the command will be ignored because the receiver is in Low Power mode. To wake up your receiver, first press the front panel  button, and then press the **P+** or **P-** key.

- To wake up your receiver from Low Power, press the front panel  button. The LED indicator remains orange to indicate standby mode. Press **P+** or **P-** to wake up your receiver.

6.2 Switching from watching digital TV to listening to digital radio

To switch your receiver from TV to RADIO and RADIO to TV, press the **TV/RADIO** key.

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6.3 Changing channels while watching digital TV or listening to digital radio

6.3.1 Using number keys

Dial a number using the remote control number keys to select the corresponding channel.

6.3.2 Using P+/P- keys

- Press **P+** to select the next channel in the current channel list.
- Press **P-** to select the previous channel in the current channel list.
- Alternatively, press **▲** or **▼** on the front panel.



6.3.3 Using channel lists

To select a channel from a channel list:

- 1 Press **List** to display the current channel list (either the Main TV list or a bouquet list previously selected).
- 2 Press **List** repeatedly to switch to the list containing the channel you want to select if need be.
- 3 Scroll to the channel you want to select using the **▲** or **▼** key. Scroll from one page to another using the white or blue remote control key.
- 4 Press **OK** to preview the selected channel on the right hand side of the screen or listen to the selected radio channel.
- 5 Press **OK** again to watch in full screen view.



6.4 PIN code

Child protection is a high priority. By entering your PIN code, you can watch programmes that have been locked for child protection at any time of the day or night - without neglecting the issue of child protection. For a programme to be passed for universal viewing, a certificate is required by law from the FSK (Free Self Control) on behalf of the State Child Protection Authorities. For a locked programme to be broadcast, a 4-digit PIN code has to be entered. You receive your PIN code together with your smart card.

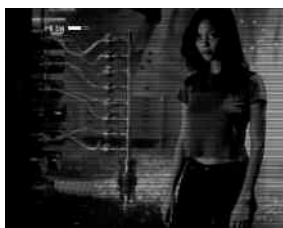
Please note that this code is different from your password (also called “system password”).

The PIN code is used to access programmes to which a maturity rating is assigned. Such programmes are systematically locked so as to prevent unsuitable audiences from watching them. When a maturity rating is associated to the current programme, a specific icon appears in the channel banner.

To view a locked programme, enter your PIN code when prompted.

Keep your PIN code secret to prevent children from using it.

To modify your PIN code, refer to paragraph PIN-Code Change.



icon	description
I-II	alternate audio language/format
FAV	current channel list
	maturity rating locked
	scrambled channel
	locked channel
	subtitles presence
	teletext presence
	AC-3 audio
	Multifeed/NVOD presence

6.5 Banner

An information banner is used to display information about the current channel and programme. Each time you change channel, the banner appears at the bottom of the screen.

- 1 To display the banner anytime while watching digital TV or listening to digital radio, press **INFO**.
- 2 For more info about the current programme while the banner is on, press **INFO** a second time.
- 3 To close the banner, press **INFO** a third time.

6.6 Volume control



While watching digital TV or listening to digital radio:

- Press to decrease the volume.
- Press to increase the volume.
- Press to mute the sound and press again to de-mute.

Change of volume is signalled using a bargraph, while audio mute is signalled with an icon.



6.7 Current programme options

The OPT key is used to directly access the video content selection, audio language, and subtitles language options.

- 1 Press **OPT** to access the options screen.
- 2 Scroll to the desired option using the ▲ or ▼ key.
- 3 Set the desired setting using the ◀ or ▶ key.
- 4 Press **OK** to confirm and exit the screen.

By default, subtitles are disabled.

6.8 Electronic Programme Guide (EPG)

While watching digital TV or listening to digital radio:

- 1 Press the **EPG** key to open the EPG for the current channel. The highlight is on the current programme.
- 2 Press **INFO** to display extended information for the highlighted programme. Press **INFO** again to return to normal view.
- 3 Press **▲** or **▼** to move the highlight to the previous or next programme respectively.
Press the **◀** or **▶** key to view the previous or next day programme list respectively.
Press **P-** or **P+** to view the previous or next channel programme list respectively.
- 4 Press **OK** to watch/listen to the selected programme in full screen view.

EPG information has to be updated regularly. Updates are performed automatically every time you turn your receiver to standby. To allow for complete update of EPG information, make sure you regularly put your receiver in standby, for instance every night when you stop watching digital TV or listening to digital radio. If your EPG information is not completely updated, some pieces of information may not be available, for instance, you might get incomplete results when performing a search. Please also note that EPG information will have to be fully reloaded in case of power failure, or network or content modification.

6.9 Recording timers

Recording timers are used to perform VCR or DVD recordings.

6.9.1 Set a timer from the EPG

6.9.1.1 Setting a timer on the programme you are watching

- 1 Press **EPG**.
- 2 Press **TIMER**.

6.9.1.2 Setting a timer on a future programme

- 1 Press **EPG**.
- 2 Move to the programme you want to record.
- 3 Press **TIMER**.
- 4 Proceed as indicated in paragraph 10.1.

6.9.2 Setting a timer via the Timer Manager

Refer to paragraph 10.1.

6.9.3 Deleting an active timer

A timer is active. Recording is signalled by the front LED lit in dimmed green in TV or Radio mode or dimmed orange if your receiver is in standby.

To delete the active timer:

- 1 If your receiver is in standby, press **P+**, **P-**, or any number key of the remote control.
- 2 Press the key sequence **TIMER** then **0**. The LED is no longer dimmed and you can change channels.

When a recording timer is active, you cannot change digital channels, but you can switch to analogue TV using the TV/STB key and zap through analogue channels.

6.9.4 Your receiver is blocked with the front panel LED lit in dimmed green or orange.

Your receiver is blocked because a timer is active. Press the key sequence **TIMER** then **0** to delete the timer and recover full control of your receiver.

6.10 Switching to analogue TV

The TV/STB key is used to switch between watching digital channels through your receiver or watching programmes through your TV set and standard analogue channels.

While watching digital TV or listening to digital radio:

- Press **TV/STB** to switch to analogue TV/VCR/DVD.
- Press **TV/STB** again to revert to digital TV or radio.

6.11 Viewing teletext

Your receiver is not equipped with a teletext decoder. To consult teletext pages, your TV set must be fitted with teletext decoder and be connected to the "TV" SCART socket of your receiver using the SCART cable supplied. Refer to the user manual of your TV set to check how to access teletext pages.

6.12 How do I reset my receiver in case of unstable or frozen picture?

- 1 Press the  button on the receiver front panel for at least 5 seconds. Your Preferences settings will not be lost.
- 2 Release the button and wait for a stable front display indication (i.e. LED either lit in orange for standby mode or green for TV mode). You can then continue with normal operation.

7 Premiere features

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Some Premiere channels include special features. On so-called “Options channels”, during sports broadcasts, you can choose between different matches (e.g. Bundesliga football), change audio soundtracks (e.g. stadium/ commentary) or choose between different camera angles (Formula 1). Using the “Options channels” on the PREMIERE DIREKT portal channels, you can also choose the start time of your choice for the movie you're ordering.



7.1 Premiere Multifeed

When multifeed options are available for the current programme, the **OPT** icon is displayed in the channel banner.

To select a multifeed option:

- 1 Press the yellow **OPT** key of the remote control to open the Options screen.
- 2 Scroll to the option you want to set using the **▲** or **▼** key.
- 3 Select the sports programme using the **◀** or **▶** key.
- 4 Press **OK** to confirm and exit the Options screen.



7.2 PREMIERE DIREKT

PREMIERE DIREKT presents various programmes at various times that you can order individually. All the information about the programmes on offer, prices and the process of ordering is available from the PREMIERE DIREKT portal.

Here is how you can watch the programmes you ordered on PREMIERE DIREKT:

- 1 Press the yellow **OPT** key on the remote control to open the Options screen.
- 2 Use the **▲** or **▼** key to place the cursor on the picture selection.
- 3 Use the **◀** or **▶** key to select the movie at the start time you want, e.g. D2 - 9.30pm.
- 4 Press **OK** to confirm and close the Options window.



8 Menu Tree

8.1 Menu tree

EN

Premiere menu	→	Pin Code change Smart card System Scan Display Dolby Digital Wake-up
Timer manager	→	Create a timer Modify a timer Cancel a timer from timer list
Channel manager	→	List organisation (activate or de-activate a TV or Radio channel list) List editing Channel pool
Settings	→	Display options (Banner duration/Transparency/ Channel number input latency/Timer warning duration/Remote control configuration) Language options
For parents	→	Decoder lock Password Change
Advanced settings	→	TV settings (TV SCART output/VCR SCART output/Dolby Digital/Recorder control/Default volume on analogue audio) System settings Time settings Factory settings Decoder status
Channel search		

8.2 Menu navigation

8.2.1 Basics

While watching digital TV or listening to the radio:

- Press **MENU** to display the Main Menu.
- Press **▲** or **▼** to scroll up or down and select the desired menu item.
- Press **OK** to display the corresponding sub items.
- Press the **▲** or **▼** key to move to the desired sub item.

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Press **MENU** to close the menu and return to watching TV.

8.2.2 Changing settings

Once you highlighted an adjustable item or sub item, you can then access the values and make changes using **◀** or **▶** to select an option and numerical keys to enter numerical values.

To open a locked menu item (indicated by a  icon), you will need to enter your PIN-Code.

8.2.3 Cancelling/storing changes

- Either press the **EXIT** key to exit the screen without storing changes.
- Or press the **OK** key to validate changes and exit the screen.

In both cases, the selection moves one step back in the menu.

9 Premiere Service Menu

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The Premiere Service Menu includes the following items:

- o PIN-Code Change
- o Smartcard
- o System
- o Scan
- o Display
- o Dolby Digital
- o Wake-up channel



9.1 PIN-Code Change

This screen is used to modify your PIN-Code. To modify your PIN-Code, follow the instructions displayed on screen.

9.2 Smartcard

This screen is used to display information about your smartcard.

9.3 System

This screen is used to display information about your receiver, including the Serial Number and software version.



9.4 Scan

This screen is used to view the date and results of the last scan performed. It may also be used to launch a new scan.

- Press the green colour key to scan the KDG network.
- Alternatively, press the yellow colour key to search for All channels.



9.5 Display

This screen is used to set the TV output signal parameters.

- 1 Select values for the following:
 - **TV Screen Format:** select 4:3 or 16:9 depending on your TV screen format
 - **Display Format:** Letter Box, Centre cut-out, or Auto
 - **TV SCART Output:** default setting is RGB. Do not modify it unless your TV does not support RGB.
 - **AV Control:** for proper operation, it is recommended to keep this setting to ON.
- 2 Press **EXIT** to exit the screen.

EN



9.6 Dolby Digital

This screen is used to enable/disable automatic selection of Dolby Digital sound.

When Dolby Digital is disabled, you can still get stereo sound in digital format (PCM).



9.7 Wake-up channel

This screen is used to set the channel to be tuned at the receiver wake-up. Default setting is channel 200.

10 Setting your receiver

10.1 Timer Manager

The Timer Manager is used to set, edit or delete:

- recording timers for the programmes you want to record using your VCR or DVD recorder,
- reminders for the programmes you want to see in the near future.



To be able to record a digital channel using a VCR or DVD recorder, you must programme both your recorder and receiver:

- You must set a timer on your receiver.
- You must also set a recording on the VCR or DVD recorder (refer to the VCR or DVD recorder user manual).

To avoid programming both your receiver and your recorder, you may also use Easy Recording provided this function is supported by your recorder. Refer to paragraph 11.3.



To delete an existing timer:

- 1 Scroll to the timer you want to delete.
- 2 Press the red colour key to delete it from the timer list.
- 3 Press **OK** to confirm deletion.
- 4 Press **EXIT** to exit the screen.



To set a new timer or edit an existing timer:

- 1 Scroll to the timer you want to edit and press **OK** to select it from the timer list.

Alternatively, press the green colour key to set a new timer.

- 2 Then set or modify the following:

- **Mode:** select **TV** or **Radio** service using the ◀ or ▶ key.
- **Channel list:** select the list to which the channel you want to record belongs using the ◀ or ▶ key.
- **Channel:** select the number of the channel on which the programme you want to record is broadcast using the ◀ or ▶ key.
- **Date:** select a date using the numerical keys or the ◀ or ▶ key.

- **Start time:** select a start time using the numerical keys or the ◀ or ▶ key to modify the default time in steps of 1 hour.
 - **End Time:** select an end time using the numerical keys or the ◀ or ▶ key to modify the default time in steps of 1 hour.
 - **Timer Type:** select Recording or Reminder
 - **Frequency:** select Once for a single recording at the selected time and date, **Daily** to record once every day, **Weekly** to record once every week, **Monday to Friday**, or **Monday to Saturday** using the ◀ or ▶ key.
- 5 Press **OK** to confirm, or **EXIT** to go back to the timer list screen.

When a recording timer is active, you cannot change digital channels, but you can switch to analogue TV using the TV/STB key and zap through analogue channels.



10.2 Channel Manager

During installation, a Main TV channel list and bouquet lists are built up according to your cable TV supplier's presets.

The Main TV or Radio list is made up of three sub-sets:

- a list you can customize according to your preferences: channels 1 to 99 (this list is empty after first installation)
- a list containing all Premiere channels if available: channels 100 to 199
- a list containing all the channels found: from channel 200 onwards.

The Channel Manager sub menu includes the following items:

- o List Organization
- o List Editing
- o Channel Pool

10.2.1 List Organization

This item is used to activate or de-activate bouquet lists.

- 1 Select TV or Radio channel lists using the **TV/RADIO** key.
- 2 Scroll to the list you want to activate or de-activate using the ▲ ▼ keys.
- 3 Press the red colour key to activate or de-activate the list.
- 4 Press **EXIT** to confirm and exit.



10.2.2 List Editing

This item is used to customize the editable part of the Main TV list (channels 1 to 99).

- 1 Set criteria for the channels you want to Add or Remove/Reorder:
 - **Mode:** **TV** or **Radio** depending on the type of channels you want
 - **Channel List:** **Main TV**, which is the only editable list
 - Set the **Modification** feature you want to use: **Add Channels** or **Remove/Reorder Channels**
 - In case you selected **Add Channels**, you must also define the channel pool from which you want to add channels by setting values for the following:
 - **Channel Pool:** channel properties you want to use as filtering criteria
 - **Sort:** list ordering method
- 2 Press **OK** to access the next screen. It may take a few seconds for this screen to appear.

To add channels to the editable part of the Main TV list (Add Channels):

- 1 Scroll to the channel you want to add using the **▲▼** keys.
- 2 Press **OK** to add the channel to the list.
- 3 Repeat this operation as needed.
- 4 Press **EXIT** to exit the screen.

To remove channels from the editable part of the Main TV list (Remove/Reorder Channels):

- 1 Press the red colour key to remove all channels from the list.
- 2 Alternatively, scroll to the channel you want to remove using the **▲▼** keys.
- 3 Press **OK** to remove the channel. Deletion is immediate.

To reorder channels in the editable part of the Main TV list (Remove/Reorder Channels):

- 1 Scroll to the channel you want to move using the **▲▼** keys.
- 2 Press the yellow colour key to enable reordering, as indicated by the presence of the double arrow.
- 3 Move the channel to the desired position using the **▲▼** keys.
- 4 Press **OK** to confirm.
- 5 Repeat this operation as needed.



10.2.3 Channel Pool

This item is used to lock or unlock channels.

When zapping through the channel lists, locked channels will be signalled using a lock icon and protected by PIN-Code.

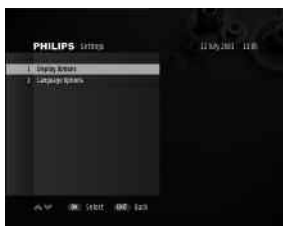
The PIN code is a 4-digit code used to prevent access to inappropriate Premiere programmes (parental control).

To set the channel pool:

- 1 Select values for the following:
 - **Mode:** TV or Radio depending on the type of channels you want to manage
 - **Channel Pool:** channel properties to be used as filtering criteria
 - **Sort:** list ordering method
- 2 Press **OK** to access the next screen. It may take a few seconds for this screen to appear.

To lock or unlock a particular channel:

- 1 Scroll to the channel you want to lock or unlock.
- 2 Press the yellow colour key to lock it. A  mark appears, indicating that the channel is locked.
- 3 Alternatively, press the yellow colour key to unlock a locked channel.
- 4 Repeat this operation as needed.
- 5 Press **EXIT** to exit the screen.



10.3 Settings

Settings is used to set:

- o Display options
- o Language options

10.3.1 Display options

This screen is used to set display options according to your preferences.

- 1 Select values for the following:
 - **Banner Duration:** select a banner display duration, from 2 to 8 seconds using the  or  key.
 - **Banner Transparency:** select On to enable banner transparency.
 - **Channel Number Input Latency:** select the time lapse after which a number key press is taken into account, from 1 to 5 using the  or  key.
 - **Timer Warning Duration:** select a banner display duration, from 15 seconds to 5 minutes using the  or  key.





- **Remote control configuration:** 39 (default factory setting) or 38 (alternative setting). Carefully follow the instructions displayed on-screen. Once you have changed this setting, the remote no longer operates the receiver. Then you have two minutes to change the configuration of your remote control as described in paragraph 11.2.
- 2 Press **OK** once you have changed your remote control setting.

10.3.2 Language options

This screen is used to set language options according to your preferences.

- 1 Select values for the following:
 - **On-Screen Language:** select a language for on-screen display
 - **Audio Language:** select your audio language
 - **Subtitles:** select On, If audio not available, Hard of hearing for special subtitles for deaf or Hard of Hearing viewers, or Off to disable subtitles.
 - **Subtitles Language:** select subtitles language.
- 2 Press **OK** confirm.



10.4 For Parents

This screen is used to enable Parental Lock and change your receiver password.

The password is a 4-digit code used to lock channels and features of the receiver. This code is different from the PIN code, which is a 4-digit code used to prevent access to inappropriate Premiere programmes.

To enable Parental Lock:

- Select **Yes** to enable Parental Lock.
 - Alternatively, select **No** to disable Parental Lock.
- Additionally, you may modify your receiver password from this screen.

To modify your receiver password:

- 1 Press the red colour key to access the Password Change feature.

- 2 Enter your current password.

If you have never changed your password, enter 1234 (factory setting).

- 3 Enter your new password using number keys. Note that your password cannot be made up of identical digits.



1911 must not be used as a password!

- 4 Enter your new password again to confirm.
- 5 Press **EXIT**.



10.5 Advanced settings

The Settings sub menu menu includes the following items:

- o TV Settings
- o System Settings
- o Country & Time Settings
- o Factory settings
- o Decoder Status

EN



10.5.1 TV Settings

This screen is used to set aspect ratio settings.

- 1 Select values for the following:
 - **TV screen format:** default setting is **4:3**. If you have a 16:9 screen TV, change this setting to **16:9** for optimal viewing.
 - **Display format:** set the way the video is transformed in case the broadcast aspect ratio is 16:9 your TV aspect ratio is 4:3.
- 2 Press **OK** to confirm.

Display format \ Aspect ratio	TV screen format = 4:3 broadcast format = 16:9
LetterBox	full picture with black bars at the top and bottom
Centre Cut Out	picture cut-out on the left and right



10.5.2 System Settings

This screen is used to set your receiver audio/video output settings.

- 1 Select values for the following:
 - **TV/VCR SCART Output:** select the SCART output format supported by your TV set and VCR (refer to your TV and VCR user manual for more information)
 - **Dolby Digital:** select **Yes** to enable Dolby Digital sound

If you enable Dolby Digital sound, make sure you use the digital audio output (no signal on the analogue outputs).
 - **Video/DVD Recorder Control:** select the recording control feature your recorder supports (refer to your recorder user manual for more information)

- **TV Audio:** select **Stereo** or **Mono** depending the audio output format of your TV
- **VCR Audio:** select **Stereo** or **Mono** depending the audio output format of your VCR
- **Default Volume:** indicate the volume level to be set as default at turn-on.

2 Press **OK** to confirm.



10.5.3 Time Settings

This screen is used to set the local time offset with respect to actual local time retrieved from the network.

The offset setting is updated automatically.

- 1 Select the appropriate Time Offset with respect to GMT time.
- 2 Press **OK** to confirm and exit the screen, or **EXIT** to exit without storing the changes.

10.5.4 Factory settings

This item is used to reset your receiver to the factory settings.

- 1 Press **OK** to reset your receiver to the factory settings.
- 2 When prompted, press the red colour key to confirm you want to reset the receiver.



10.5.5 Decoder Status

The Decoder Status sub menu menu includes the following items:

- o System Information
- o Software Upgrade

10.5.5.1 System Information

This screen is used to display information about your receiver, including the Serial Number and software version.

You can also access this screen via the **PREMIERE** menu.

10.5.5.2 Decoder Upgrade

This item is used for software upgrades. Select it to check the current software version as well as launch a search for new software. After a few seconds, the Software Upgrade screen indicates whether new software is available.

- Press **EXIT** to exit the screen in case no new software is available.

In case software is available, you are offered three options:

- Press the green colour key to choose to upgrade your receiver immediately, and then press **OK** to launch new software installation.
- Or press the yellow colour key to choose to upgrade your receiver later, and then press **OK** to confirm your choice. New software installation takes place as soon as you set your receiver to standby.
- Or press the red colour key to refuse to upgrade your receiver and return to the Decoder status sub menu.

After successful software installation, a confirmation message is displayed. In case of installation failure, a failure message is displayed, indicating that a new installation attempt will take place as soon as you set your receiver to standby. In both cases, press **OK** to exit the upgrade process.

You can also launch a search for new software from the screen described above using the red colour key.



10.6 Channel Search

This item is used to search for new channels.

It is recommended not to change the predefined settings:

- Start frequency: 306 MHz
- Stop frequency: 442 MHz
- Constellation: Auto
- Band width: 8000 KHz

Press **OK** to start searching for new channels.

During the scanning process, the following information is reported on screen:

- the number of TV and Radio channels found,
- the scanning progress, indicated as a percentage,
- the strength of the signal and the quality of reception.



If you press **EXIT** during the scanning process, you interrupt the scanning. In this case, none of the channels found are stored.

When scanning is successfully completed, a completion message is displayed as well as the number of channels detected.

Press **OK** to tune the receiver according to the Wake-up channel setting.

11 Other settings

11.1 Restoring factory settings

- 1 Press **MENU**, then **6**, and then **4**.
- 2 Press the red colour key.

If you restore the factory settings of your receiver, you lose all the settings you stored previously and have to restart from first installation.

To restore your receiver factory settings, refer to paragraph 10.5.4.

11.2 Changing the remote control configuration

If you have other items of equipment in your home and the remote control of the Philips receiver interferes with them, you can change the setting of the remote control. For this you must change the setting of both your receiver and remote control.

11.2.1 To change the setting of your receiver

Refer to paragraph 10.3.1.

11.2.2 To change the configuration of your remote control:

- 1 Simultaneously press number keys 1 and 3 and hold them for at least 3 seconds.
- 2 Simultaneously release the two keys.
- 3 Enter the new setting within the next 60 seconds:
 - 5 for alternative setting corresponding to setting 38
 - 1 for the default factory setting corresponding to setting 39.
- 4 Press **OK**.

If the batteries are removed while a key is being pressed, the default factory setting (39) is restored.

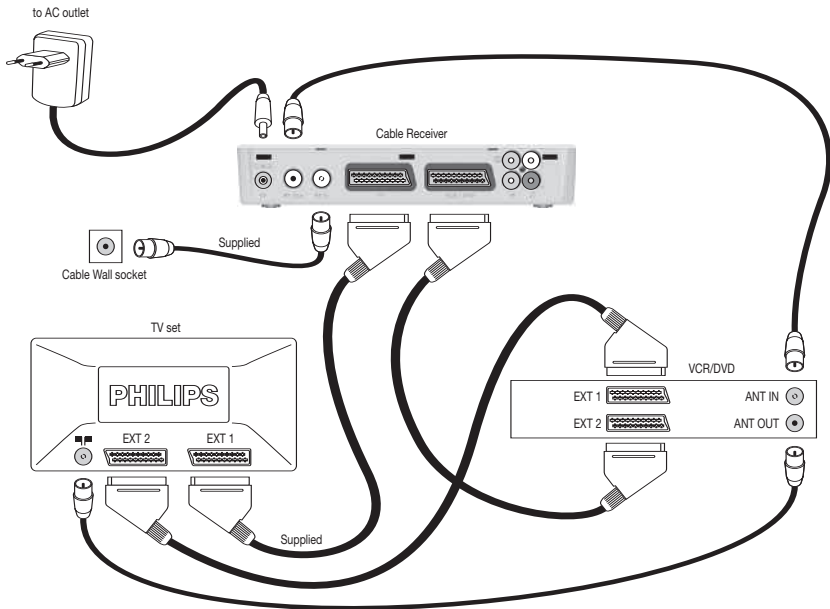
11.3 VCR/DVD Recorder Control

11.3.1 Connecting your receiver for Video/DVD Recorder Control

Recorder control allows automatic recording without requiring you to programme your VCR or DVD recorder. All you need to do is set a recording timer for your VCR or DVD recorder to start/stop recording.

Prior to setting this feature:

- 1 Consult the user manual of your VCR or DVD recorder to check if and how recorder control is supported. Most Philips VCR and DVD recorders support one of the two recorder control options, i.e. Prepare Record and Record Link.
- 2 Check that your TV and VCR or DVD are both fitted with two SCART sockets.
- 3 Incorporate your receiver in your existing installation as described below:



- Connect the cable from the cable wall socket to the “RF In” socket of your Digital-Receiver.
 - Connect the “TV” SCART socket of your Digital-Receiver to the EXT1 SCART socket of your TV using the SCART lead supplied with your Digital-Receiver.
 - Connect the “VCR/DVD” SCART socket of your Digital-Receiver to the EXT2 SCART socket of your VCR (called “IN” or “DECODER”) using a SCART lead.
 - Connect the EXT1 SCART socket of your VCR (called “OUT”) to the EXT2 SCART socket of your TV using a SCART lead.
- 4 Plug all your equipment, excluding your Digital-Receiver, into the mains.
- Read section Quick installation to proceed with the channel scan if not already done.

With this connection set up:

- You can watch digital TV while you record analogue TV.
- You can watch analogue TV while you record digital TV.
- You can record the digital TV channel you are watching.

Some VCR or DVD recorders need to be in standby to use the Prepare Record or Record link feature. Refer to your VCR or DVD user manual.

11.3.2 Digital-Receiver and VCR or DVD settings

Depending on your VCR or DVD brand and type, set the **Video/DVD Recorder Control** setting of your Digital-Receiver to **Prepare Record** or **Record Link**. Refer to your VCR or DVD user manual, or try the two options to find out which is most suitable.

Set your VCR or DVD to “Prepare Record” or “Record Link” to allow control by your Digital-Receiver.

11.3.3 Recording with the VCR/DVD Recorder Control feature

Your Digital-Receiver, TV and VCR or DVD are connected and set according to paragraph 11.1.

You have set a timer on your Digital-Receiver.

At timer start, your VCR or DVD starts recording, and at timer end it stops recording under the control of your Digital-Receiver. You no longer need VCR or DVD programming to record digital TV channels.

12 Troubleshooting

Please be aware that new software may change the functionality of your receiver. Should you experience any difficulties with the operation of the receiver, please consult the relevant section of this manual, including this Troubleshooting section. If the problem cannot be solved, call your dealer or a customer service adviser.

Problem	Possible cause	Action
The LED on the front panel does not light up.	Faulty power supply	Check that the power cord with AC adapter is correctly connected. Disconnect this cord and reconnect it to ensure it is in place. Check that the power is available at the wall socket.
No sound or picture but the front panel LED is lit in red.	Receiver in "low power"	Press  on the front panel.
No sound or picture but the front panel LED is lit in orange.	Receiver is in standby	Press P+ , P- , or any number key of the remote control.
No sound or picture but the front panel LED lit in green.	Poor signal	Check the connections at the wall socket and receiver. Check signal quality using the Scan item of the Premiere menu.
	Receiver in TV mode	Press TV/STB on the remote control once or twice.
	Poor SCART connections	Check the SCART connections.
The remote control does not operate your receiver.		Make sure the receiver is on. Make sure you are pointing the remote control at the receiver front panel. Check the batteries in your remote control. Check that the receiver and remote control configurations match: refer to paragraph 11.2.2.
	You have changed your remote control batteries.	Try setting your remote control again as described in paragraph 11.2.
The picture appears frozen and the remote control does not operate your receiver.		Press  on the receiver front panel for at least 5 seconds. Your settings will not be lost. Release the button and wait for the LED to turn either red for "low power", orange for standby, or green for TV mode respectively. You can then continue with normal operation.
On-screen display working but there is no reception	Poor reception/signal	Check the installation.

Problem	Possible cause	Action
Intermittent reception	Faulty connections	Check all connections and cable. Check signal quality from the Scan item of the Premiere menu.
The picture is not sharp and on-screen text is difficult to read.	TV SCART output format not set to RGB	Change the TV SCART Output setting to RGB from the System Settings screen. Refer to paragraph 10.5.2.
	TV SCART not connected to the RGB capable SCART socket of your TV set.	Refer to your TV user manual.
	Inappropriate SCART cable	Use the SCART cable supplied with your receiver.
The picture on some channels seems to have been stretched or squashed.	The broadcast is probably in wide screen and the receiver settings may not be correct.	Check the receiver TV screen format setting, following the information in paragraph 10.5.1. If you have a wide screen TV, you may also need to check the settings on your TV.
Even if you use the number keys, you cannot access a particular channel.	The parental lock has been activated on this channel and a message asks for your password.	Enter your password to access the channel or remove it as a locked channel.
	Your subscription rights do not include this channel	Select another channel.
		There is no channel corresponding to this number.
You set a timer but did not record what you wanted.	The recorder was set incorrectly.	Make sure that your recorder is set for the same time as your Digital-Receiver.
	The recorder was not programmed.	Make sure you have programmed your recorder.
The order of the channels has changed.	They have been re-arranged as described in paragraph 10.2.2.	Refer to this chapter to change the order again.
You have forgotten your password		From the main menu, press 5 to go to the For Parents screen. When prompted, enter the following 4-digit code: 1911. Then enter 1234 as your current password, and proceed as described in paragraph 10.4.
You have forgotten your KDG or Premiere PIN-Code.		Depending on your smart card, either call the KDG Call Centre on: 0180/xxx xx xx for Germany 01/xxxxx xxx for Austria or call the Premiere Call Centre on: 0180/551 00 00 for Germany 01/49166 200 for Austria

For problems that are not related to KDG or Premiere channels or the KDG or Premiere smart card, but rather due to your receiver, call the Philips Call Centre on 0180/500 75 31* from Germany, or 0820 400 039* from Austria.

* open 7 days from 08.00 to 23.00 - 0.12 Euros/min

13 Technical specifications

This product complies with the following European Directives: 95/47/EC and 2002/21/EC.

Video decoding

- MPEG-2 DVB compliant up to MP@ ML
- Video bit rate: up to 15 Mbit/sec
- Video format: 4:3 with options for 16:9 broadcast, Pan & Scan, Letter box, 16:9
- Resolution: up to 720x576 pixels

Ease of Installation

- Automatic channel installation
- Automatic channel list update
- Up to 1000 channels
- Bouquet auto-installation including Premiere (network dependant)

Audio decoding

- MPEG layer I / II
- Dolby Digital
- Multi-channel down-mixing

Ease of Use

- Channel list editing for personalised installation (delete, add, move)
- Bouquet selection
- Full remote control
- 7 days EPG (network dependant)
- Automatic recording via: Timer programming in EPG Easy recording for Philips VCR and DVD-R
- Now & Next program monitoring

Operation/Features

- TV & Radio modes
- Reception of Pay TV for: Channels on KDG cable network, Premiere programmes on private or KDG cable network.
- Subtitles
- Parental lock with password
- Audio mode: Mono, Stereo
- Menu-controlled installation and operation
- 8 event Timers/Reminders
- Automatic VCR to TV SCART bypass for audio L/R + CVBS or RGB video signals

- Software upgrade via: Cable network, Serial interface
- Eco mode consumption: <2 W
- Dolby Digital audio output

Application system resources

Processor: 200 MHz
SDRAM - CPU/Video-Graphics: 32 MB
Flash - Data/Code: 4 MB
EEPROM: 8 kB

Reception-Demodulation

- Demodulation:
Type: QAM
Constellation: 16, 32, 64, 128, 256
- Symbol rate range (MS/s): 3 to 6.9
- Channel bandwidth (MHz): 8
- RF input
Frequency range (MHz): 47 to 862
Input level range (dBµV): 44 to 75 in 64 QAM
51 to 75 in 256 QAM
Return loss (dB): ≥ 10
Noise figure (dB): 9.5
- RF loop-through:
Frequency range (MHz): 47 to 862

De-scrambling

Embedded Type: DVB compliant
Smart card reader: 1 for CA
CA system: Nagravision

Note: a subscription is required to watch Premiere and other Pay TV programmes.

Connections

- RF connections
input: IEC 169-2 female/75 Ohm
output: IEC 169-2 male/75 Ohm
- TV SCART
Output: CVBS, Controlled audio L/R, RGB/Fast blanking, Slow blanking
- VCR SCART
Input: CVBS, Slow blanking, Audio L/R, RGB/Fast blanking
Output: CVBS, Audio L/R, Slow blanking during timer if "Prepare

Record" mode is activated

- Audio outputs
L/R output: Volume controlled analogue audio
Coaxial SPDIF: AC3 or PCM
- Serial interface: hidden (for service only)
- IR interface
Cinch: for future use

Accessories

- AC/DC power adapter
- Remote control type RC19336005/01
- Batteries: 2 x 1.5V type AA/R06
- User manual
- Worldwide Guarantee booklet
- SCART lead
- RF coaxial cable

Miscellaneous

- Temperature range (°C)
Operating: +10 to 40
Storage: -25 to +70
- Mains: 230 V ~ +/-10%: 50 Hz
- Maximum power consumption (W):
Running mode: 10
Passive standby: 9
Eco mode: 2
- Weight (Kg): 0.5
Including packaging: 1.2
- Dimensions (mm):
Product: 240x150x45
Packaging: 341 x 245 x 65

Multi-language

- Menu: English, German
- User Manual: English, German

This product complies with the following European Directives:



- 73/23/EEC
- 93/68/EEC
- 89/336/EEC

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